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| 14 | BRS | L14 | 0 | cartesian.clm. and pareto.clm. |
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| 17 | BRS | L17 | 5 | pareto.clm. and filter.clm. |

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| 1 | USPAT; USOCR | 2005/05/18 14:10 | |
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| 9 | USPAT | 2005/05/18 14:14 | |
| 10 | USPAT | 2005/05/18 14:19 | |
| 11 | USPAT | 2005/05/18 14:24 | |
| 12 | USPAT | 2005/05/18 14:25 | |
| 13 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | 2005/05/18 14:26 | |
| 14 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | 2005/05/18 14:26 | |
| 15 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | 2005/05/18 14:26 | |
| 16 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | 2005/05/18 14:26 | |
| 17 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | 2005/05/18 14:27 | |

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| 1 | BRS | L1 | 0 | (Pareto same Cartesian) | US-PGPUB; USPAT; IBM_TDB | 2005/04/18 10:55 |
| 2 | BRS | L2 | 5 | (partial same Pareto) | US-PGPUB; USPAT; IBM_TDB | 2005/04/18 11:08 |
| 3 | BRS | L3 | 522 | forming SAME cartesian | US-PGPUB; USPAT; IBM_TDB | 2005/04/18 11:08 |
| 4 | BRS | L4 | 0 | (forming SAME cartesian) and Pareto | US-PGPUB; USPAT; IBM_TDB | 2005/04/18 11:08 |
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Multiobjective optimization of large-scale structures.

**Author(s)**
Grandhi-R-V; Bharatram-G; Venkayya-V-B.

**Author affiliation**
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**Treatment codes**
T Theoretical or Mathematical.

**Abstract**
Presents a multiobjective optimization algorithm based on generalized compound scaling techniques. The algorithm handles any number of objective functions, similar to handling behavior constraints. The technique generates a **partial Pareto** set while solving the optimization problem. A reliability-based decision criterion is used for selecting the best compromise design. The example cases considered in this work include various disciplines in airframe structures, such as stress, displacement, and frequency with hundreds of design variables and constraints. The paper also discusses the concept of **Pareto-optimal** solutions in the context of a multiobjective structural optimization problem and the commonly used methods of generating **Pareto-optimal** solutions. (20 refs).

**Descriptors**
decision-theory; large-scale-systems; optimisation; reliability-theory.

**Keywords**

large scale structures; multiobjective optimization algorithm; generalized compound scaling techniques; **partial Pareto** set; reliability based decision criterion; airframe structures; **Pareto** optimal solutions.

**Classification codes**

C1210B (Reliability theory).
C1180 (Optimisation techniques).
C1140E (Game theory).